

WHAT IS CLAIMED IS

1. A timepiece allowing a reading of first conventional time information by means of first analogue display means including a dial and hours and minutes indicator members driven by a movement of the timepiece, this timepiece including second analogue display means allowing a simultaneous reading of second time information based on a decimal system wherein time is divided at least into thousandths of a day,
- wherein said second analogue display means include said dial and said minutes indicator member in addition to complementary analogue display means indicating at least approximate decimal values of the full hours expressed in thousandths of a day,
- said minutes indicator member indicating on said dial, in addition to the minutes, corresponding decimal values over a total duration of one hour,
- said second time information based on the decimal system being formed by adding the decimal value indicated on said dial by said minutes indicator member and the approximate decimal value indicated by said complementary analogue display means.
2. The timepiece according to claim 1, wherein said complementary analogue display means include said hours indicator member associated with a rotatably adjustable display member mounted on the timepiece and on which at least said approximate decimal values of the full hours are indicated.
3. The timepiece according to claim 2, wherein said hours indicator member makes one complete revolution in twelve hours and in that said rotatably adjustable display member is subdivided into $12 \times N$ equal angular sectors, N being an integer number,
- each angular sector including indications of first and second approximate decimal values separated from each other by twelve hours, these first and second approximate decimal values being indicated successively in each angular sector, in ascending order and in the clockwise direction, with time intervals equivalent to $60 / N$ minutes,
- said dial being subdivided into N equal angular sectors each indicating the corresponding decimal values of the minutes over a duration of $60 / N$ minutes for each angular sector.
4. The timepiece according to claim 3, further including an AM/PM indicator mechanism allowing which of said first and second approximate decimal values has to be considered at a given moment.

5. The timepiece according to claim 3, further including a mechanism allowing said first or second approximate decimal values, indicated on said rotatably adjustable display member, to be masked alternately every twelve hours.

6. The timepiece according to claim 1, wherein said complementary analogue display means include an indicator member driven by said movement and making a complete revolution in twenty-four hours associated with a rotatably adjustable display member mounted on the timepiece and on which at least said approximate decimal values of the full hours are indicated.

7. The timepiece according to claim 6, characterised in that said rotatably adjustable display member is subdivided into $24 \times N$ equal angular sectors, N being an integer number,

each angular sector including an indication of an approximate decimal value, this approximate decimal value being indicated successively in each angular sector, in ascending order and in the clockwise direction, with time intervals equivalent to $60 / N$ minutes,

said dial being subdivided into N equal angular sectors each indicating the corresponding decimal values of the minutes over a duration of $60 / N$ minutes for each angular sector.

8. The timepiece according to claim 6, further including an indication of the twenty-four hours facing the corresponding approximate decimal values indicated on said rotatably adjustable display member.

9. The timepiece according to claim 1, wherein said complementary analogue display means include a fixed index associated with a display member driven by said movement on which at least said approximate decimal values of the full hours are indicated.

10. The timepiece according to claim 9, wherein said driven display member makes a complete revolution in twenty-four hours and is subdivided into $24 \times N$ equal angular sectors, N being an integer number,

- each angular sector including an indication of an approximate decimal value, this approximate decimal value being successively indicated in each angular sector, in ascending order, with time intervals equivalent to $60 / N$ minutes,

said dial being subdivided into N equal angular sectors each indicating the corresponding decimal values of the minutes over a duration of $60 / N$ minutes for each angular sector.